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(54) Title: **A SYNBIOTIC PRODUCT AND ITS APPLICATION AS A CARRIER OF NATURAL BIOACTIVE SUBSTANCES IN FUNCTIONAL FOOD ADDITIVES**

(57) Abstract: It used as carrier of bioactive substances of natural origin like dry herb extracts or combinations thereof, other vegetable products as essential oils, fruit concentrates, animal products as bee products, added to vitamins combinations, said product ensuring bacteria proliferation and growth when stored and after intake. The bioactive products can be stored for period 2 to 3 years without the probiotic losing its activity. In the gastrointestinal tract they can colonize supplying the body with useful substances resulting from their metabolism ensuring fast transportation of bioactive substances to body's cells. It contains low-lactose sour-milk product, low-lactose hydrolyzate with more than 95% degraded milk casein, saccharose, pectin, full-cream or skimmed low-lactose cow's milk fermented using selected strains of *Lactobacillus delbrueckii subsp. bulgaricus*, and additionally lyophilized monoculture of *Lactobacillus delbrueckii subsp. bulgaricus* or lyophilized mixture of monocultures of *Lactobacillus bulgaricus*, *Lactobacillus acidophilus*, *Streptococcus thermophilus*, *Lactobacillus lactis* and dextrose.